Journal of Electron Spectroscopy and Related Phenomena, 60 (1992) 387–388
Elsevier Science Publishers B.V., Amsterdam

AUTHOR INDEX

Adachi, H. 29
Amoddeo, A. 247
Antonov, V.N. 351

Beker, U. 337
Biswanathan, V. 65
Braun, W. 1

Caputi, L.S. 247
Chin, W.S. 101
Chopra, K.L. 57
Ciampi, S. 375
Colavita, E. 247

Deleuze, M. 37
Delhalle, J. 37
Di Castro, V. 375
Didziulis, S.V. 175
Durbin, T.D. 175

Fulghum, J.E. 117
Furlani, C. 375

Goldmann, A. 1
Gorozhankin, V.M. 71
Grunze, M. 193

Hansen, H.S. 301
Harada, Y. 101
Heiser, F. 337
Hergenhahn, U. 337
Huang, H.H. 101

Ishi, S. 65

Jablonksi, A. 13
Jansson, C. 301

Kato, S. 101
Killinger, A. 193
Klier, K. 155
Kotani, A. 257
Kovalík, A. 71
Kruse, A. 193
Kucherenko, Yu.N. 351
Kutscher, J. 321

Lesiak-Orlowska, B. 13
Lince, J.R. 175
Lodders, F. 1

Masuda, S. 101
Mathur, B.K. 57
McGuire, G.E. 117
Meyer, W. 193
Mok, C.Y. 101
Mukoyama, T. 29

Nakamatsu, H. 29
Neumann, M. 321
Novgorodov, A.F. 71
Nyberg, G.L. 225

Ogasawara, H. 257
Onoe, J. 29

Parikh, N. 117
Patnaik, B. 117
Perlov, A.Ya. 351
Pickup, B.T. 37
Polzonetti, G. 375, R7

Rao, M.V.H. 57
Richter, K.H. 127
Rudolph, D. 1
Russo, M.V. R7

Saethre, L.J. R1
Scharfschwerdt, C. 321
Schmahl, G. 1
Schneider, F. 321
Scrocco, M. 363
Sekine, R. 29
Shcheka, O.L. 211
Shen, W. 225
Shuh, D.K. 175
Siggel, M.R.F. R1
Sojka, Zb. 155

Stokell, R. 117

Takeuchi, K. 29
Thomas, T.D. R1
Thümmler, C. 193
Tougaard, S. 301, 321
Tucci, R. 247

Viefhaus, J. 337
Vovna, V.I. 211

Wertheim, G.K. 237
Wieliczek, K. 337

Yarmoff, J.A. 175
Yu, N. 117
Yubero, F. 301

Zemek, J. 13
Zhao, Y.J. 117

Journal of Electron Spectroscopy and Related Phenomena, 60 (1992) 389–394
Elsevier Science Publishers B.V., Amsterdam

SUBJECT INDEX

Absorption edge
Photoelectron spectroscopy of MoS_2 at the sulfur 2p absorption edge 175
AES
Application of pattern recognition method to identification of electron-beam-induced changes at InP(110) surface 13
Cadmium oxidation in different environments: an XPS study 375
On the Auger parameter 65
The *L* Auger spectra of $^{155}_{64}Gd$, $^{159}_{65}Tb$, $^{165}_{67}Ho$ and $^{171}_{70}Yb$ from radioactive decay 71
Alkane
Second-order Green's function study of valence band formation of linear alkanes 37
Alloy
Theoretical investigation of the Auger spectra of Mg in various local atomic environments. Part 3. Mg–Cu and Mg–Zn alloys 351
Argon
High resolution threshold photoelectron spectra of neon and argon in the valence satellite region 337
Auger
Photoelectron spectroscopy of MoS_2 at the sulfur 2p absorption edge 175
Auger parameter
On the Auger parameter 65
Auger spectra
Theoretical investigation of the Auger spectra of Mg in various local atomic environments. Part 3. Mg–Cu and Mg–Zn alloys 351

Background
Determination of numerical data from polychromatic ESCA spectra and their verification 127
BESSY
Small-spot XPS with a zone plate monochromator for synchrotron radiation 1
Benzenedithiol
A UPS and MO investigation of 1,3-propanedithiol and 1,2-benzenedithiol 225

Cadmium
Cadmium oxidation in different environments: an XPS study 375
Carbon
Method of identification of electronically different surface atoms by scanning tunneling microscopy and surface state spectroscopy of the graphite(0001) surface 57
The effect of carbon overlayers on surface relaxation of Ni(110) 247
Catalyst
High resolution XPS analysis of binary and ternary Cu and Fe doped ZnO catalysts for methane oxidation to formaldehyde 155
Chelate
Electronic structure of some copper(II) and iron(III) β-diketonates 211
CNDO/2
Electronic structure of some copper(II) and iron(III) β-diketonates 211
Copper
Theoretical investigation of the Auger spectra of Mg in various local atomic environments. Part 3. Mg–Cu and Mg–Zn alloys 351
Copper compound
Electronic structure of some copper(II) and iron(III) β-diketonates 211
Core-ionization energy
Molecular charge distributions, core-ionization energies, and the point-charge approixmation. An addendum R1
Coulombic pair
High resolution XPS analysis of binary and ternary Cu and Fe doped ZnO

catalysts for methane oxidation to formaldehyde 155

Diketonate
Electronic structure of some copper(II) and iron(III) β-diketonates 211
Dirac–Slater
Discrete-variational Dirac–Slater calculation on XPS for the valence levels of UF_6 29
Dithiol
A UPS and MO investigation of 1,3-propanedithiol and 1,2-benzenedithiol 225
DV–DS
Discrete-variaional Dirac–Slater calculation on XPS for the valence levels of UF_6 29

EELFS
The effect of carbon overlayers on surface relaxation of Ni(110) 247
EELS
Electron-energy-loss and X-ray photoelectron spectra. Part 1. Electronic structure of tetraphenylporphyrin and its nickel derivative 363
Electron attenuation length
Determination of Si2p electron attenuation lengths in SiO_2 117
Ellipsometry
Determination of Si2p electron attenuation lengths in SiO_2 117
ESCA
Determination of numerical data from polychromatic ESCA spectra and their verification 127

FTIR
X-ray photoemission studies on vapour-phase-deposited polyamide films 193

GAUSSIAN 86
A UPS and MO investigation of 1,3-propanedithiol and 1,2-benzenedithiol 225
Gadolinium
The *L* Auger spectra of $^{155}_{64}Gd$, $^{159}_{65}Tb$, $^{165}_{67}Ho$ and $^{171}_{70}Yb$ from radioactive decay 71
Gaussian
Parameter correlations and constraints in least-squares analysis of photoemission data 237
Graphite
Method of identification of electronically different surface atoms by scanning tunneling microscopy and surface state spectroscopy of the graphite(0001) surface 57
Green's function
Second-order Green's function study of valence band formation of linear alkanes 37

High resolution
High resolution threshold photoelectron spectra of neon and argon in the valence satellite region 337
Holmium
The *L* Auger spectra of $^{155}_{64}Gd$, $^{159}_{65}Tb$, $^{165}_{67}Ho$ and $^{171}_{70}Yb$ from radioactive decay 71

Indium phosphide
Application of pattern recognition method to identification of electron-beam-induced changes at InP(110) surface 13
Insulator
Quantitative XPS of NiO, CoO and MnO. The effects of elastic and inelastic electron scattering 321
Iron compound
Electronic structure of some copper(II) and iron(III) β-diketonates 211

Lanthanon compound
Theory of core-level spectroscopy of rare-earth oxides 257
LDOS
Method of identification of electronically different surface atoms by scanning tunneling microscopy and surface state spectroscopy of the graphite(0001) surface 57
LEED
The effect of carbon overlayers on surface relaxation of Ni(110) 247

Least-squares optimization
Parameter correlations and constraints in least-squares analysis of photoemission data 237
Ligand
Electron-energy-loss and X-ray photoelectron spectra. Part 1. Electronic structure of tetraphenylporphyrin and its nickel derivative 363
Line scan
Method of identification of electronically different surface atoms by scanning tunneling microscopy and surface state spectroscopy of the graphite(0001) surface 57
Lorentzian
Parameter correlations and constraints in least-squares analysis of photoemission data 237
Low resolution
Determination of numerical data from polychromatic ESCA spectra and their verification 127

Magnesium
Theoretical investigation of the Auger spectra of Mg in various local atomic environments. Part 3. Mg–Cu and Mg–Zn alloys 351
Methane
High resolution XPS analysis of binary and ternary Cu and Fe doped ZnO catalysts for methane oxidation to formaldehyde 155
MO
A UPS and MO investigation of 1,3-propanedithiol and 1,2-benzenedithiol 225
Model
Molecular charge distributions, core-ionization energies, and the point-charge approximation. An addendum R1
Second-order Green's function study of valence band formation of linear alkanes 37
Molecular orbital
Photoelectron spectroscopy of MoS_2 at the sulfur 2p absorption edge 175
Molybdenum disulphide
Photoelectron spectroscopy of MoS_2 at the sulfur 2p absorption edge 175
Monochromator
Moisture
H_2O surface interaction of oxygen-free polyphenylacetylene films investigated by XPS R7
Small-spot XPS with a zone plate monochromator for synchrotron radiation 1
MRD–CI
Penning ionization electron spectra of nitro compounds 101
Multipole
Molecular charge distributions, core-ionization energies, and the point-charge approximation. An addenum R1

Neon
High resolution threshold photoelectron spectra of neon and argon in the valence satellite region 337
Nickel
The effect of carbon overlayers on surface relaxation of Ni(110) 247
Nitroalkane
Penning ionization electron spectra of nitro compounds 101
Nitroalkene
Penning ionization electron spectra of nitro compounds 101
Nitrobenzene
Penning ionization electron spectra of nitro compounds 101
NMR
H_2O surface interaction of oxygen-free polyphenylacetylene films investigated by XPS R7

Overlayer
The effect of carbon overlayers on surface relaxation of Ni(110) 247
Oxidation
Cadmium oxidation in different environments: an XPS study 375
Oxide
Quantitative XPS of NiO, CoO and MnO. The effects of elastic and inelastic electron scattering 321

Theory of core-level spectroscopy of rare-earth oxides 257

Parameter correlation
Parameter correlations and constraints in least-squares analysis of photoemission data 237
Pattern recognition
Application of pattern recognition method to identification of electron-beam-induced changes at InP(110) surface 13
PES
On the Auger parameter 65
Photoelectron spectroscopy of MoS_2 at the sulfur 2p absorption edge 175
PETP
Determination of numerical data from polychromatic ESCA spectra and their verification 127
Photoemission data
Parameter correlations and constraints in least-squares analysis of photoemission data 237
PIES
Penning ionization electron spectra of nitro compounds 101
Plasmon transition
Electron-energy-loss and X-ray photoelectron spectra. Part 1. Electronic structure of tetraphenylporphyrin and its nickel derivative 363
Point charge
Molecular charge distributions, core-ionization energies, and the point-charge approximation. An addendum R1
Polyamide
X-ray photoemission studies on vapour-phase-deposited polyamide films 193
Polychromatic
Determination of numerical data from polychromatic ESCA spectra and their verification 127
Polymer
X-ray photoemission studies on vapour-phase-deposited polyamide films 193
Polyphenylacetylene
H_2O surface interaction of oxygen-free polyphenylacetylene films investigated by XPS R7
Potassium
Parameter correlations and constraints in least-squares analysis of photoemission data 237
Precision
High resolution threshold photoelectron spectra of neon and argon in the valence satellite region 337
Propanedithiol
A UPS and MO investigation of 1,3-propanedithiol and 1,2-benzenedithiol 225

Rare earth
Theory of core-level spectroscopy of rare-earth oxides 257
RBS/channelling
Determination of Si2p electron attenuation lengths in SiO_2 117
REELS
Accuracy of the Tougaard method for quantitative surface analysis. Comparison of the Universal and REELS inelastic cross sections 301

Resonance
Photoelectron spectroscopy of MoS_2 at the sulfur 2p absorption edge 175

Scattering
Quantitative XPS of NiO, CoO and MnO. The effects of elastic and inelastic electron scattering 321
Self-energy
Second-order Green's function study of valence band formation of linear alkanes 37
Silica
Determination of Si2p electron attenuation lengths in SiO_2 117
Solid solution
High resolution XPS analysis of binary and ternary Cu and Fe doped ZnO catalysts for methane oxidation to formaldehyde 155
STM
Method of identification of electronically different surface atoms by scan-

ning tunneling microscopy and surface state spectroscopy of the graphite(0001) surface 57
Stoichiometry
X-ray photoemission studies on vapour-phase-deposited polyamide films 193
Surface analysis
Accuracy of the Tougaard method for quantitative surface analysis. Comparison of the Universal and REELS inelastic cross sections 301
Surface relaxation
The effect of carbon overlayers on surface relaxation of Ni(110) 247
Synchrontron
Small-spot XPS with a zone plate monochromator for synchrotron radiation 1

Terbium
The *L* Auger specra of $^{155}_{64}$Gd, $^{159}_{65}$Tb, $^{165}_{67}$Ho and $^{171}_{70}$Yb from radioactive decay 71
Tetraphenylporphyrin
Electron-energy-loss and X-ray photoelectron spectra. Part 1. Electronic structure of tetraphenylporphyrin and its nickel derivative 363
TG–BG
Determination of numerical data from polychromatic ESCA spectra and their verification 127
Thin film
Determination of Si2p electron attenuation lengths in SiO_2 117
X-ray photoemission studies on vapour-phase-deposited polyamide films 193
Tougaard
Accuracy of the Tougaard method for quantitative surface analysis. Comparison of the Universal and REELS inelastic cross sections 301

Universal cross section
Accuracy of the Tougaard method for quantitative surface analysis. Comparison of the Universal and REELS inelastic cross sections 301
UPS
A UPS and MO investigation of 1,3-propanedithiol and 1,2-benzenedithiol 225
Penning ionization electron spectra of nitro compounds 101
Uranium fluoride
Discrete-variational Dirac–Slater calculation on XPS for the valence levels of UF_6 29

Valence band
Second-order Green's function study of valence band formation of linear alkanes 37

Water
H_2O surface interaction of oxygen-free polyphenylacetylene films investigated by XPS R7

XAS
Theory of core-level spectroscopy of rare-earth oxides 257
XES
Electronic structure of some copper(II) and iron(III) β-diketonates 211
XPS
Cadmium oxidation in different environments: an XPS study 375
Determination of Si2p electron attenuation lengths in SiO_2 117
Discrete-variational Dirac–Slater calculation on XPS for the valence levels of UF_6 29
Electron-energy-loss and X-ray photoelectron spectra. Part 1. Electronic structure of tetraphenylporphyrin and its nickel derivative 363
H_2O surface interaction of oxygen-free polyphenylacetylene films investigated by XPS R7
High resolution XPS analysis of binary and ternary Cu and Fe doped ZnO catalysts for methane oxidation to formaldehyde 155
Quantitative XPS of NiO, CoO and MnO. The effects of elastic and inelastic electron scattering 321
Small-spot XPS with a zone plate monochromator for synchrotron radiation 1

Theory of core-level spectroscopy of rare-earth oxides 257
X-ray photoemission studies on vapour-phase-deposited polyamide films 193

Ytterbium
The *L* Auger spectra of $^{155}_{64}$GD, $^{159}_{65}$Tb, $^{165}_{67}$Ho and $^{171}_{70}$Yb from radioactive decay 71

Zinc
Theoretical investigation of the Auger spectra of Mg in various local atomic environments. Part 3. Mg–Cu and Mg–Zn alloys 351
Zinc oxide
High resolution XPS analysis of binary and ternary Cu and Fe doped ZnO catalysts for methane oxidation to formaldehyde 155
Zone plate
Small-spot XPS with a zone plate monochromator for synchrotron radiation 1